IN THE CLAIMS

- (Previously Presented) A method of determining if the content of a source

 MPEG-2 stream, may be reduced, said method comprising:
- examining said source stream at an MPEG-2 transcoder to determine if a sequence display extension follows the most recent sequence header and sequence extension:
- b) confirming that horizontal_size is greater than display_horizontal_size or that vertical size is greater than display vertical size; and
- c) if steps a) and b) are met, reducing the content of said source stream to create a reformatted stream by substituting into said reformatted stream a portion of new_horizontal_size for horizontal_size and a portion of new_vertical_size for vertical_size, and substituting into said reformatted stream a portion of new_horizontal_size for horizontal_size extension and a portion of new vertical size for vertical size extension.
- 2. (Previously Presented) The method of claim 1 where step c) comprises the steps of:
 - i) calculating the values of: width mb and height mb;
 - calculating the values of: top, bottom, left and right;
 - ii) calculating the values: of top mb, bottom mb, left mb and right mb;
 - 3. (Canceled)
 - 4. (Canceled)
- (Previously Presented) The method of claim 2 further comprising: removing picture_display_extension data from said source stream when creating said reformatted stream,
 - (Previously Presented) The method of claim 5 further comprising:
 removing macroblocks from said source stream if their horizontal position is less

than left_mb or greater than right_mb or if their vertical position is less than top_mb or greater than bottom mb, when creating said reformatted stream

- (Previously Presented) The method of claim 6 further comprising: removing slices from said source stream which contain no macroblocks, when
- removing slices from said source stream which contain no macrobiocks, wheil creating said reformatted stream
- (Previously Presented) The method of claim 7 further comprising: subtracting the value of top_mb from each slice_start_code, if slice_start_code becomes less than one, then setting it to one, in said reformatted stream.

- (Withdrawn) A system for reducing the content of an MPEG-2 source stream, said system comprising:
- a transcoder, said transcoder converting said source stream to a reformatted stream;
- a transmitter connected to said transcoder, for transmitting said reformatted stream;
- c) a receiver connected to said transmitter, for receiving said reformatted stream; and
- a decoder connected to said receiver, for decoding said reformatted stream and providing as output a viewable stream.
- 10. (Withdrawn) The system of claim 9 wherein said transcoder comprises selector means to determine if said source stream may be reduced to create said reformatted stream, said logical means comprising the steps of:
- examining said source stream to determine if a sequence_display_extension follows the most recent sequence header and sequence extension;
- confirming that horizontal_size is greater than display_horizontal_size or that vertical_size is greater than display_vertical_size; and
- c) if steps a) and b) are met, reducing the content of said source stream to create said reformatted stream.
- (Withdrawn) The system of claim 10 wherein said transcoder further comprises calculation means for calculating and introducing into said reformatted stream new values for horizontal size and vertical size.
- (Withdrawn) The system of claim 11 wherein said transcoder further comprises first removal means for removing picture_display_extension data from said source stream when creating said reformatted stream.
- (Withdrawn) The system of claim 12 wherein said transcoder further comprises second removal means for removing macroblocks from said source stream when creating said reformatted stream.
- (Withdrawn) The system of claim 13 wherein said transcoder further comprises slice removal means for removing slices from said source stream when creating said reformatted stream.
- (Withdrawn) The system of claim 14 wherein said transcoder further comprises means for recalculating the value for slice start code fields.
 - 16-23. (Canceled)

- 24. (Withdrawn) A system for repositioning frames in an MPEG-2 stream said system comprising repositioning means, said repositioning means utilizing pan-scan information to relocate a display rectangle to a reconstructed frame.
- 25. (Withdrawn) The system of claim 24 wherein said repositioning means comprises:
- a) selector means to determine if said frames in said stream are applicable for repositioning.:
 - b) first calculation means for calculating the values of; width mb and height mb;
 - c) second calculation means for calculating the values of: top, bottom, left and right;
- d) third calculating means for calculating the values: of top_mb, bottom_mb, left mb and right mb; and
- e) modification means for creating a reformatted stream based upon the input from steps b) to d).
- 26. (Withdrawn) The system of claim 25 wherein said modification means comprises picture removal means for removing picture_display_extension data from said source stream when creating said reformatted stream.
- 27. (Withdrawn) The system of claim 26 wherein said modification means further comprises macroblock removal means for removing macroblocks from said source stream if their horizontal position is less than left_mb or greater than right_mb or if their vertical position is less than top mb or greater than bottom mb, when creating said reformatted stream
- 28. (Withdrawn) The system of claim 27 wherein said modification means further comprises slice removal means for removing slices from said sourcestream which contain no macroblocks, when creating said reformatted stream
- 29. (Withdrawn) The system of claim 28 wherein said modification means further comprises subtraction means for subtracting the value of top_mb from each slice_start_code, if slice start code becomes less than one, then setting it to one, in said reformatted stream.
 - 30. (Canceled)
- (Previously Presented) A video transcoder including a pan-scan module, the panscan module configured to perform the following steps:
- examining a source video stream at an MPEG-2 transcoder to determine if a sequence display extension follows the most recent sequence header and sequence extension;
- b) confirming that horizontal_size is greater than display_horizontal_size or that vertical size is greater than display vertical size; and

- c) if steps a) and b) are met, reducing the content of said source stream to create a reformatted stream by substituting into said reformatted stream a portion of new_horizontal_size for horizontal_size and a portion of new_vertical_size for vertical_size, and substituting into said reformatted stream a portion of new_horizontal_size for horizontal_size extension and a portion of new vertical size for vertical size extension.
- 32. (Previously Presented) The transcoder of claim 31 where step c) comprises the steps of:
 - i) calculating the values of; width mb and height mb;
 - calculating the values of: top, bottom, left and right;
 - iii) calculating the values; of top mb, bottom mb, left mb and right mb;
 - 33. (Canceled)
 - (Canceled)
- 35. (Previously Presented) The transcoder of claim 32 wherein said pan-scan module performs the additional step of:
- removing picture_display_extension data from said source stream when creating said reformatted stream,
- (Previously Presented) The transcoder of claim 35 wherein said pan-scan module performs the additional step of:
- removing macroblocks from said source stream if their horizontal position is less than left_mb or greater than right_mb or if their vertical position is less than top_mb or greater than bottom_mb, when creating said reformatted stream
- 37. (Previously Presented) The transcoder of claim 36 wherein said pan-scan module performs the additional step of:
- removing slices from said source stream which contain no macroblocks, when creating said reformatted stream
- 38. (Previously Presented) The transcoder of claim 37 wherein said pan-scan module performs the additional step of:
- subtracting the value of top_mb from each slice_start_code, if slice_start_code becomes less than one, then setting it to one, in said reformatted stream.
- (Withdrawn) A pan-scan module, said pan-scan module residing within a video transcoder, said module comprising:
- a) a selector for examining a source stream to determine if said source stream may be reduced:

- b) a first calculator accepting as input said source stream to calculate the values of: width_mb and height_mb;
- c) a second calculator accepting as input said source stream for calculating the values of: top, bottom, left and right;
- d) a third calculator accepting as input said source stream for calculating the values of top mb, bottom mb, left mb and right mb; and
- e) a modifer taking as input the calculations performed by said first, second and third calculators to create a reformatted stream.
- 40. (Withdrawn) The module of claim 39 wherein said modifier performs the steps of:
- i) introducing into said reformatted stream a portion of a portion of new_horizontal_size for horizontal_size and a portion of new_vertical_size for vertical_size; and
- ii) substituting into said reformatted stream a portion of new_horizontal_size for horizontal_size extension and a portion of new_vertical_size for vertical_size extension.
 - 41. (Withdrawn) The module of claim 40 wherein the portion of step i) is 12 bits.
 - 42. (Withdrawn) The module of claim 41 wherein the portion of step ii) is 2 bits.
- 43. (Withdrawn) The module of claim 40 wherein said modifier performs the additional step of:
- iii) removing picture_display_extension data from said source stream when creating said reformatted stream,
- (Withdrawn) The module of claim 43 wherein said modifier performs the additional step of:
- iv) removing macroblocks from said source stream if their horizontal position is less than left_mb or greater than right_mb or if their vertical position is less than top_mb or greater than bottom mb, when creating said reformatted stream
- 45. (Withdrawn) The module of claim 44 wherein modifier performs the additional step of:
- removing slices from said source stream which contain no macroblocks, when creating said reformatted stream
- 46. (Withdrawn) The module of claim 45 wherein said modifier performs the additional step of:
- vi) subtracting the value of top_mb from each slice_start_code, if slice start code becomes less than one, then setting it to one, in said reformatted stream.